ACADGILD ASSIGNMENT 2.2

1. Read multiple JSON files into a directory to convert into a dataset. I have files text1, text2, text3 in the directory JSON.

Answer:

Read the JSON File

The JSON file is read by R using the function from **JSON**(). It is stored as a list in R.

```
# Load the package required to read JSON files.
library("rjson")
# Give the input file name to the function.
result <- from JSON (file = "input .json")
# Print the result.
print(result)
When we execute the above code, it produces the following result –
$ID
[1] "1" "2" "3" "4" "5" "6" "7" "8"
$Name
                     "Michelle" "Ryan" "Gary"
[1] "Rick" "Dan"
                                                    "Nina"
"Simon" "Guru"
$Salary
[1] "623.3" "515.2" "611" "729" "843.25" "578" "632.8" "722.5"
```

```
$StartDate

[1] "1/1/2012" "9/23/2013" "11/15/2014" "5/11/2014" "3/27/2015"
"5/21/2013"

"7/30/2013" "6/17/2014"

$Dept

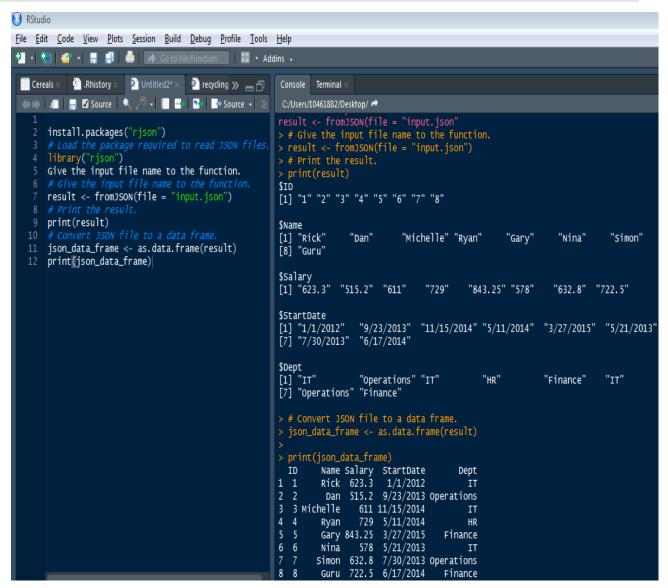
[1] "IT" "Operations" "IT" "HR" "Finance" "IT" "Operations"
"Finance"
```

Convert JSON to a Data Frame

We can convert the extracted data above to a R data frame for further analysis using the **as.data.frame()** function

```
# Load the package required to read JSON files.
library("rjson")
# Give the input file name to the function.
result <- from JSON (file = "input.json")
# Convert JSON file to a data frame.
json_data_frame <- as.data.frame(result)</pre>
print(json data frame)
When we execute the above code, it produces the following result
   id, name, salary, start date,
                                    dept
    1 Rick 623.30 2012-01-01
                                      IT
1
2
    2 Dan 515.20 2013-09-23
                                      Operations
    3 Michelle 611.00 2014-11-15
3
                                        IT
4
    4 Ryan 729.00 2014-05-11
                                       HR
```

```
5
         Gary
                         2015-03-27
   NA
                 843.25
                                        Finance
       Nina
               578.00
                        2013-05-21
                                      IT
6
    6
        Simon
                632.80
                         2013-07-30
                                       Operations
8
    8
       Guru
               722.50
                        2014-06-17
                                      Finance
```



2. Parse the following JSON into a data frame.

js<-'{"name": null, "release_date_local": null, "title": "3 (2011)",

```
"opening_weekend_take": 1234, "year": 2011,
"release_date_wide": "2011-09-16", "gross": 59954
  js<-'[{"name": null, "release_date_local": null, "title": "3 (2011)",
   opening_weekend_take": 1234, "year": 2011,
+ "release_date_wide": "2011-09-16", "gross": 59954}]'
> js <- fromJSON(js)</p>
 js <- lapply(js, function(x) {</pre>
   x[sapply(x, is.null)] <- NA
    unlist(x)
+ })
> do.call("rbind", js)
    "3 (2011)" "1234"
[1,] NA
    release_date_wide gross
[1,] "2011-09-16"
```

3. Write a script for Variable Binning using R.